WHAT IS CLAIMED IS:

1. A discharge lamp comprising:

an envelope;

a discharge-sustaining fill sealed inside the envelope;

first and second electrodes for providing a discharge, at least the first electrode including a current carrying wire and a coil including:

a first coiled structure formed by winding a overwind wire around a first cylindrical member,

a second coiled structure formed by winding the first coiled structure around a second cylindrical member,

a third coiled structure formed by winding the second coiled structure around a third cylindrical member, the third cylindrical member having a diameter of at least 1.0 mm, and

an emitter material deposited on the coil.

- 2. The discharge lamp of claim 1, wherein the third cylindrical member has a diameter of at least 1.2mm.
- 3. The discharge lamp of claim 2, wherein the third cylindrical member has a diameter of at least 1.2–1.5mm.
- 4. The discharge lamp of claim 1, wherein the second coiled structure has at least 80 turns per inch.
- 5. The discharge lamp of claim 4, wherein the second coiled structure has at least 85 turns per inch.

- 6. The discharge lamp of claim 1, wherein the third coiled structure is at least 10mm in length.
- 7. The discharge lamp of claim 6, wherein the third coiled structure is 11-12 mm in length and the lamp is a T8 lamp.
- 8. The discharge lamp of claim 1, wherein the emitter material comprises an oxide selected from the group consisting of barium, strontium, calcium, zirconium, and combinations thereof.
 - 9. A discharge lamp comprising:

an envelope;

a discharge-sustaining fill sealed inside the envelope;

first and second electrodes for providing a discharge, at least the first electrode including a coil including:

a first coiled structure formed by winding a wire around a first cylindrical member,

a second coiled structure formed by winding the first coiled structure around a second cylindrical member, the second coiled structure having coils which are spaced to provide at least 80 turns per inch (TPI), and

a third coiled structure formed by winding the second coiled structure around a third cylindrical member, and

an emitter material deposited on the coil.

10. The discharge lamp of claim 9, wherein the third cylindrical member has a diameter of 1-2 mm.

- 11. The discharge lamp of claim 10, wherein the third cylindrical member has a diameter of 1.2-1.5 mm.
- 12. The discharge lamp of claim 9, wherein the second coiled structure has at least 90 turns per inch.
- 13. The discharge lamp of claim 9, wherein the secondary coil is about 30 mm in length.
- 14. The discharge lamp of claim 13, wherein the amount of emitter material is 10-15mg.
- 15. A method for forming a coil for a fluorescent lamp, the method comprising:

winding a wire around a first cylindrical member and a current carrying wire to form a first coiled structure;

winding the first coiled structure around a second cylindrical member to form a second coiled structure; and

winding the second coiled structure around a third cylindrical member to form a third coiled structure, the third structure having a diameter of at least 1 mm; and

coating the third coiled structure with an emitter mix which, when activated, emits electrons when heated.

- 16. The method of claim 15, wherein the emitter mix includes carbonates selected from the group consisting of barium carbonate, calcium carbonate, strontium carbonate, and combinations thereof.
- 17. The method of claim 15, wherein the step of winding the first coiled structure around the second cylindrical member to form a second coiled structure includes winding the first coiled structure at a spacing which provides at least 80 turns per inch.

- 18. The method of claim 15, further including dissolving the first, second and third cylindrical members in an acid bath.
- 19. The method of claim 13, wherein the third cylindrical member has a diameter of at least 1mm.
- 20. The method of claim 19, wherein the third cylindrical member has a diameter of 1.2-1.5mm.
- 21. The method of claim 15, wherein the second coiled structure has about 90 turns per inch.
- 22. The method of claim 15, wherein the third coiled structure is about 11.5 mm in length.
- 23. The method of claim 22, wherein the step of coating the third coiled structure with an emitter mix includes coating the third coiled structure with a mixture which includes at least 9 grams of one or more carbonates.